

CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of determining an Internet Protocol (IP) address of an application server ~~[[of]]~~in a visited serving network, comprising:

receiving an IP address associated with a device on the network by a ~~user equipment~~
~~(UE)~~wireless mobile device;

performing a reverse domain name query by the ~~UE~~wireless mobile device ~~as a function~~
~~of~~using the received IP address;

receiving, by the ~~UE~~wireless mobile device, ~~the~~a response to the reverse domain name
query comprising the visited serving network domain name, wherein the network is visited by the
wireless mobile device and serving the wireless mobile device;

extracting, by the ~~UE~~wireless mobile device, the serving network domain name from the
received reverse domain name query;

~~generating~~selecting, by the ~~UE~~wireless mobile device, an application server name as a
function of a service desired by the wireless mobile device;

appending, by the ~~UE~~wireless mobile device, the extracted serving network domain name to
the application server name, thereby generating a domain-specific application server name;

performing, by the ~~UE~~wireless mobile device, a domain name query ~~as a function of~~using
the domain-specific application server name; and

receiving, by the ~~UE~~wireless mobile device, a response to the domain name query
comprising a second IP address as a function of the domain-specific application server name, the
second IP address identifying an application server in the visited serving network, the application
server capable of providing the service desired by the wireless mobile device.

2. (Currently Amended) The method of Claim 1, wherein receiving an IP address comprises receiving an IP address for the ~~UE~~wireless mobile device.

3. (Previously Presented) The method of Claim 1, wherein receiving an IP address comprises receiving an IP address associated with a device providing an IP address to the serving network.

4. (Previously Presented) The method of Claim 3, wherein receiving an IP address associated with a device providing an IP address to the serving network comprises receiving an IP address of an access gateway.

5. (Original) The method of Claim 1, wherein the step of deriving the serving network domain name information from the reverse domain name query further comprises deriving information from a Uniform Resource Identifier (URI).

6. (Previously Presented) The method of Claim 1, wherein the application server name comprises a Proxy Call Session Control Function (P-CSCF) server name.

7-14. (Canceled)

15. (Currently Amended) A system for determining an Internet Protocol (IP) address of an application server ~~[[of]]~~in a visited serving network, comprising:

a ~~user equipment (UE)~~ wireless mobile device in communication with an access gateway of the serving network, wherein the ~~UE~~ wireless mobile device is configured to:

request an IP address ~~for the UE~~ associated with a device on the network from the serving network;

receive the requested IP address ~~associated with the UE~~;

perform a reverse domain name query ~~as a function of~~ using the received IP address;

receive a response to the reverse domain name query comprising the visited serving network domain name, wherein the network is visited by the wireless mobile device and serving the wireless mobile device;

extract the serving network domain name information from the reverse domain name query;

~~generate~~ select an application server name as a function of a service desired by the wireless mobile device;

append the extracted serving network domain name information to the application server name, thereby generating a domain-specific application server name;

perform a domain name query ~~as a function of~~ using the domain-specific application server name; and

receive a response to the domain name query comprising a [[n]] second IP address as a function of the domain-specific application server name, the second IP address identifying an application server in the visiting serving network, the application server capable of providing the service desired by the wireless mobile device.

16. (Original) The system of Claim 15, wherein the serving network has a URI.

17. (Currently Amended) The system of Claim 15, wherein ~~UE is configured to perform a reverse domain name query for the UE~~the IP address is the IP address of the wireless mobile device.

18. (Currently Amended) The system of Claim 15, wherein the ~~UE is configured to perform a reverse domain name query for~~IP address is the IP address of a device providing an IP address to the serving network.

19. (Previously Presented) The system of Claim 18, wherein the device providing an IP address to the serving network comprises the access gateway.

20. (Currently Amended) ~~[[A]]~~The system of Claim 15, wherein the wireless mobile device is configured to for determining an Internet Protocol (IP) address of an application server of a visited serving network, comprising:

~~a user equipment (UE) in communication with an access gateway of the serving network, wherein the UE is configured to:~~

~~request an IP address for the UE from the serving network;~~

~~receive the requested IP address associated with the UE;~~

~~perform a reverse domain name query as a function of the received IP address;~~

~~receive a response to the reverse domain name query;~~

~~extract the serving network domain name information from the reverse domain name query;~~

~~generate an application server name;~~

~~append the derived domain name information to the application server name,
thereby generating a domain-specific application server name;
perform a domain name query as a function of the domain-specific application
server name; and
receive a second IP address as a function of the domain-specific application server
name; and
store the second IP address.~~